

Form PTO 1449 US Department of Commerce Patent and Trademark Office	ATTY DOCKET NO: P-UW 4979	SERIAL NO. 09/972,834
	APPLICANT: Loeb et al.	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	FILING DATE: October 4, 2001	GROUP: 1656



U.S. PATENT DOCUMENTS

EXAM. INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
✓	5,614,365	3/25/97	Tabor et al.	435	6	11/8/94
	5,945,312	8/31/99	Goodman et al.	435	91.1	11/7/97
	5,948,614	9/7/99	Chatterjee	435	6	9/6/96
	5,976,842	11/2/99	Wurst	435	91.2	10/30/97
	5,939,292	8/17/99	Gelfand et al.	435	91.2	8/5/97
	6,015,668	1/18/00	Hughes et al.	435	6	9/6/96

FOREIGN PATENT DOCUMENTS

EXAM. INITIALS	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION (YES/NO)
✓	EP 0416801	8/29/90	European			
	EP 0655506	11/24/96	European			
	EP 0727496	11/24/94	European			
	WO 91/02090	2/21/91	PCT			
	WO 95/14782	6/1/95	PCT			
	WO 95/33853	14/12/95	PCT	C12Q	1/68	
	WO 96/10640	4/11/96	PCT			
	WO 96/34980	11/7/96	PCT			
	WO 96/41014	19/12/96	PCT	C12Q	1/68	
	2302590	12/11/96	United Kingdom			

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Page 2 of 4

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages)

✓	Barnes, "PCR amplification of up to 35-kb DNA with high-fidelity and high-yield from λ bacteriophage templates," <u>Proc. Natl. Acad. Sci. USA</u> , 91:2216-2220 (1994).
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✓	Drosopoulos and Prasad, "Increased Polymerase Fidelity of B89G, a Nucleoside Analog-Resistant Variant of Human Immunodeficiency Virus Type 1 Reverse Transcriptase," <u>J. Virol.</u> , 70:4834-4838 (1996).
✓	Dube et al., "Artificial mutants generated by the insertion of random oligonucleotides into the putative nucleoside binding site of the HSV-1 thymidine kinase gene," <u>Biochemistry</u> 30:11760-11767 (1991)

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Page 3 of 4

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✓	Eger et al., "Mechanism of DNA Replication Fidelity for Three Mutants of DNA Polymerase I: Klenow Fragment (KF(exo ⁻), KF(polA5), and KF(exo ⁺)," <u>Biochem.</u> , 30:1441-1448 (1991).
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	Joyce and Steitz, "Function and structure relationships in DNA polymerases," <u>Annu. Rev. Biochem.</u> , 63:777-822 (1994)
	Kim and Loeb, "Human immunodeficiency virus reverse transcriptase substitutes for DNA polymerase I in <i>Escherichia coli</i> ," <u>Proc. Natl. Acad. Sci. USA</u> 92:684-688 (1995)
	Kim et al., "Crystal structure of <i>Thermus aquaticus</i> DNA polymerase," <u>Nature</u> 376:612-616 (1995)
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✓	Loeb, "Unnatural nucleotide sequences in biopharmaceutics," <u>Advances in Pharmacology</u> 35:321-347 (1996)
✓	Newcomb et al., "High Fidelity Taq Polymerases For Mutation Detection," <u>FASEB J.</u> 11:A1249, abstract 2295 (1997)

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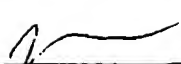
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Page 4 of 4

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<input checked="" type="checkbox"/>	Pandey et al., "Role of Methionine 184 of Human Immunodeficiency Virus Type-1 Reverse Transcriptase in the Polymerase Function and Fidelity of DNA Synthesis," <u>Biochem.</u> , 35:2168-2179 (1996).
<input type="checkbox"/>	Reha-Krantz and Nonay, "Motifa of Bacteriophage T4 DNA Polymerase: Role in Primer Extension and DNA Replication Fidelity," <u>J. Biol. Chem.</u> , 269:5635-5643 (1994).
<input type="checkbox"/>	Suzuki et al., "Low Fidelity Mutants in the Q-Helix of <i>Thermus aquaticus</i> DNA Polymerase I," <u>J. Biol. Chem.</u> , 272:11228-11235 (1997)
<input type="checkbox"/>	Suzuki et al., "Random mutagenesis of <i>Thermus aquaticus</i> DNA polymerase I: concordance of immutable sites in vivo with the crystal structure," <u>Proc. Natl. Acad. Sci. USA</u> , 93:9670-9675 (1996)
<input type="checkbox"/>	Sweasy and Loeb, "Mammalian DNA polymerase β can substitute for DNA polymerase I during DNA replication in <i>Escherichia coli</i> ," <u>J. Biol. Chem.</u> , 267:1407-1410 (1992)
<input type="checkbox"/>	Tabor and Richardson, "A single residue in DNA polymerases of the <i>Escherichia coli</i> DNA polymerase I family is critical for distinguishing between deoxy- and dideoxyribonucleotides," <u>Proc. Natl. Acad. Sci. USA</u> , 92:6339-6343 (1995)
<input type="checkbox"/>	Tindall and Kunkel, "Fidelity of DNA synthesis by the <i>Thermus aquaticus</i> DNA polymerase," <u>Biochemistry</u> , 27:6008-6013 (1988)
<input type="checkbox"/>	Wainberg et al., "Enhanced Fidelity of 3TC-Selected Mutant HIV-1 Reverse Transcriptase," <u>Science</u> , 271:1282-1285 (1996).
<input checked="" type="checkbox"/>	Washington et al., "A genetic system to identify DNA polymerase β mutator mutants," <u>Proc. Natl. Acad. Sci. USA</u> , 94:1321-1326 (1997).

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